

California Regional Water Quality Control Board  
Santa Ana Region  
3737 Main Street, Suite 500  
Riverside, CA 92501-3348

**NOTICE OF PUBLIC HEARING**

For  
ORDER NO. R8-2003-117  
Amending Order No. 01-45, NPDES NO. CA8000304  
For  
Colton/San Bernardino  
Regional Tertiary Treatment and Water Reclamation Authority  
Regional Tertiary Treatment Rapid Infiltration and Extraction Facility  
San Bernardino County

On the basis of preliminary staff review and application of lawful standards and regulations, the California Regional Water Quality Control Board, Santa Ana Region, proposes to amend waste discharge requirements for Colton/San Bernardino Regional Tertiary Treatment and Water Reclamation Authority's Regional Tertiary Treatment Rapid Infiltration and Extraction (RIX) Facility to delete the methylmercury receiving water limitations specified in Order No. 01-45, NPDES NO. CA8000304.

The Board is seeking comments concerning the proposed amendment to waste discharge requirements. The Board will hold a public hearing to consider adoption of Order No. R8-2003-117, NPDES No. CA8000304, waste discharge requirements for RIX facility as follows:

**DATE:** November 21, 2003  
**TIME:** 9:00 a.m.  
**PLACE:** Eastern Municipal Water District  
2270 Trumble Road  
Perris

Interested persons are invited to submit written comments on the proposed Order No. R8-2003-117. Interested persons are also invited to attend the public hearing and express their views on issues relating to the proposed Order. Oral statements will be heard, but should be brief to allow all interested persons time to be heard. For the accuracy of the record, all testimony (oral statements) should be submitted in writing.

Although all comments that are provided up to and during the public hearing on this matter will be considered, receipt of comments by November 3, 2003, would be appreciated so that they can be used in the formulation of the final draft Order that will be transmitted to the Board two weeks prior to the hearing. The final draft Order may contain changes resulting from comments received from the public. To view on/or download a copy of the final draft requirements, please access our website at [www.swrchb.ca.gov/rwqcb8](http://www.swrchb.ca.gov/rwqcb8) on or after November 10, 2003.

The Board's proposed Order, related documents, and all comments and petitions received may be inspected and copied at the Regional Board office, 3737 Main Street, Suite 500, Riverside, CA 92501-3348 (phone 909-782-4130) by appointment scheduled between the hours of 9:00 a.m. and 3:00 p.m., Monday through Friday. Copies of the proposed Order will be mailed to interested persons upon request to Jun Martinez ((909) 782-3258).

Any person who is physically handicapped and requires special accommodation to participate in this Regional Board Meeting should contact Barbara Laffoon at (909) 782-3285 no later than November 10, 2003.

Please bring the foregoing to the attention of any persons known to you who would be interested in this matter.

California Regional Water Quality Control Board  
Santa Ana Region

November 21, 2003

**ITEM:**

**SUBJECT:** Amendment to Order No. 01-45, Waste Discharge Requirements for Colton/San Bernardino Regional Tertiary Treatment and Water Reclamation Authority's Regional Tertiary Treatment Rapid Infiltration and Extraction Facility, Order No. R8-2003-171

**DISCUSSION:**

On October 26, 2001, the Board adopted Order No. 01-45, renewing waste discharge requirements for Colton/San Bernardino Regional Tertiary Treatment and Water Reclamation Authority's (hereinafter CSBRTTWRA or discharger) Regional Tertiary Treatment Rapid Infiltration and Extraction (RIX) facility for the discharge of tertiary treated wastewater to the Santa Ana River. Order No. 01-45 specified a receiving water limitation for methymercury based on the EPA guidance document EPA-823-R-01-001 - Water Quality Criterion for the Protection of Human Health: Methylmercury, January 2001. In this guidance document, the US EPA finds that a fish tissue residue water quality criterion for methylmercury is more appropriate than a water column based water quality criterion. The EPA further states that a fish tissue residue water quality criterion is more closely tied to the Clean Water Act goal of protecting the public health because it is based directly on the human exposure route for methylmercury. The receiving water limitation in Order No. 01-45 requires that the discharge not contain mercury concentrations that would result in the bioaccumulation of methylmercury in fish flesh to levels greater than 0.3 mg /kg.

Order No. 01-45 did not specify a mercury effluent limitation in view of the extremely low concentrations involved and the ultra clean sampling and analytical methods that would be necessary to even approach suitable detection levels. In lieu of this approach, in addition to effluent monitoring, the discharger was required to conduct monitoring of fish tissue in the Santa Ana River to identify any evidence of mercury bioaccumulation, as would be indicated by the detection of methylmercury. The Order includes a reopener provision that enables the Regional Board to revise the Order to include a mercury effluent limitation once a scientifically defensible method of translating methylmercury concentrations in fish tissue to mercury in the effluent is derived.

The discharger has demonstrated, through monitoring of the discharge and a fish (and other aquatic organisms) testing program conducted jointly with other dischargers to the Santa Ana River, that there is no reasonable potential for methlymercury to be present in the discharge at levels that would cause or contribute to a violation of water quality standards. Accordingly, it is appropriate to delete the methylmercury receiving water limitation. The discharger will continue to be required to conduct fish flesh testing for the presence of methylmercury.

Staff recommends that the reopener provision in Order No. 01-45 be revised to provide a specific numeric target for the methylmercury concentration in fish tissue that could trigger revision of the Order to specify an effluent limitation for mercury.

**RECOMMENDATION:**

Adopt Order No. R8-2003-171, as presented.

Comments were solicited from the following agencies:

U.S. Environmental Protection Agency, Permits Issuance Section (WTR-5) – Doug Eberhardt  
U.S. Army District, Los Angeles, Corps of Engineers, Regulatory Branch  
U.S. Fish and Wildlife Service - Carlsbad  
State Water Resources Control Board, Office of the Chief Counsel – Jorge Leon  
State Water Resources Control Board, Division of Water Quality- James Maughan  
State Water Resources Control Board, Division of Clean Water Programs – Diana Robles  
State Department of Health Services, San Bernardino  
State Department of Health Services, Santa Ana  
State Department of Health Services, Carpinteria - Jeff Stone  
State Department of Water Resources - Glendale  
State Department of Fish and Game - Long Beach  
City of Highland - City Manager  
City of Loma Linda - City Manager  
City of San Bernardino - City Manager  
City of Colton - City Manager  
City of Grand Terrace - City Manager  
City of Colton, Water and Wastewater Department - Thomas Clarke  
City of Rialto, Public Works Director – John Gerardi  
East Valley Water District -Robert Martin  
Orange County Water District - Nira Yamachika  
San Bernardino County Department of Public Works, Envr. Mngmt. Div. – Naresh Varma  
San Bernardino County Environmental Health Department – Daniel Avera  
Riverside Regional Water Quality Control Plant – John Claus  
Santa Ana Watershed Project Authority – Joseph Grindstaff  
Santa Ana River Dischargers Association  
Orange County Coastkeeper – Garry Brown  
Lawyers for Clean Water C/c San Francisco Baykeeper  
Colton/San Bernardino Regional Tertiary Treatment and Water Reclamation Authority –  
Bernard C. Kersey

California Regional Water Quality Control Board  
Santa Ana Region

Order No. R8-2003-117

Amending Order No. 01-45, NPDES NO. CA8000304  
Waste Discharge Requirements  
for  
Colton/San Bernardino  
Regional Tertiary Treatment and Water Reclamation Authority  
Regional Tertiary Treatment Rapid Infiltration and Extraction Facility  
San Bernardino County

The California Regional Water Quality Control Board, Santa Ana Region (hereinafter Regional Board), finds that:

1. On October 26, 2001, the Regional Board adopted Order No. 01-45, renewing waste discharge requirements for Colton/San Bernardino Regional Tertiary Treatment and Water Reclamation Authority's (hereinafter CSBRTTWA or discharger) Regional Tertiary Treatment Rapid Infiltration and Extraction (RIX) facility for the discharge of tertiary treated wastewater to the Santa Ana River.
2. Order No. 01-45 includes the receiving water limitation that the discharge shall not contain mercury concentrations that would result in the bioaccumulation of methylmercury in fish flesh to levels greater than 0.3 mg/kg. This limitation is based on guidance provided by the U. S. Environmental Protection Agency (EPA-823-R-01-001 - Water Quality Criterion for the Protection of Human Health: Methylmercury, January 2001).
3. The discharger has demonstrated, through monitoring of the effluent and a fish (and other organism) testing program conducted jointly with other dischargers to the Santa Ana River, that there is no reasonable potential for methylmercury to be present in the discharge at levels that would cause or contribute to the violation of water quality standards. Therefore, it is appropriate to delete the receiving water limitation for methylmercury.
4. It is appropriate to require the discharger to continue to monitor for the presence of mercury and methylmercury in the discharge and aquatic organisms that may be affected by the discharge, as currently specified in Order No. 01-45.
5. Order No. 01-45 includes a reopener provision that enables the Regional Board to reopen the Order to specify an appropriate effluent limitation for mercury once a scientifically defensible method of translating methylmercury concentrations in fish tissue to mercury concentrations in the effluent is derived. It is appropriate to revise this provision to provide more specificity regarding the methylmercury concentrations in fish tissue that could trigger reopening of the Order.

6. In accordance with Water Code Section 13389, the amendment of Order No. 01-45, is exempt from those provisions of the California Environmental Quality Act contained in Chapter 3 (commencing with Section 21100), Division 13 of the Public Resources Code.
7. The Regional Board has notified the discharger and other interested agencies and persons of its intent to amend the waste discharge requirements for the discharge and has provided them with an opportunity to submit their written views and recommendations.
8. The Regional Board, in a public meeting, heard and considered all comments pertaining to the discharge.

**IT IS HEREBY ORDERED** that Order No. 01-45 be amended as follows:

1. Order No. 01-45, delete Finding 38 as follows: (deleted text is struck out)
  31. ~~In its January 8, 2001, guidance document, the US EPA finds that a fish tissue residue water quality criterion for methylmercury (Water Quality Criterion for the Protection of Human Health: Methylmercury EPA 823-R-01-001, January 2001) is more appropriate than a water column based water quality criterion. The EPA further states that a fish tissue residue water quality criterion is more closely tied to the Clean Water Act goal of protecting the public health because it is based directly on the human exposure route for methylmercury. Consequently, this Order specifies a receiving water limitation in fish tissue of 0.3 mg methylmercury/kg fish in lieu of limitations for total mercury in the effluent.~~
2. Order No. 01-45, delete Receiving Water Limitations C.4. as follows: (deleted text is struck out)
  4. ~~The discharge shall not contain constituent concentrations of mercury that will result in the bioaccumulation of methylmercury in fish flesh tissue greater than 0.3 mg methylmercury/kg fish.~~
3. Order No. 01-45, revise Permit Re-opening H.4. as follows: (deleted text is struck out and added text is bold and highlighted)
  4. This Order may be reopened to include an appropriate bioaccumulation based effluent limit for mercury, ~~when scientifically defensible guidance is developed to translate methylmercury in fish tissue to total mercury in effluent discharges.~~ **if test results (as required in M&RP No. 01-45) show that the concentration levels of methylmercury in the fish tissue are at or above 0.3 milligrams per kilogram.**

4. All other conditions and requirements of Order No. 01-45 shall remain unchanged.

I, Gerard J. Thibeault, Executive Officer, do hereby certify that the foregoing is a full, true, and correct copy of an order adopted by the California Regional Water Quality Control Board, Santa Ana Region, on November 21, 2003.

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Gerard J. Thibeault  
Executive Officer